

For Research Use Only

CoraLite®594-conjugated ALDH1A1 Monoclonal antibody



Catalog Number:CL594-60171

Basic Information

Catalog Number:

CL594-60171

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG8551

GenBank Accession Number:

BC001505

GeneID (NCBI):

216

UNIPROT ID:

P00352

Full Name:

aldehyde dehydrogenase 1 family,
member A1

Calculated MW:

501 aa, 55 kDa

Purification Method:

Protein G purification

CloneNo.:

1A10A2

Recommended Dilutions:

IF 1:50-1:500

Excitation/Emission maxima
wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

human, mouse, rat, pig

Positive Controls:

IF : HeLa cells,

Background Information

ALDH1A1(Aldehyde dehydrogenase family 1 member A1), also named as ALDC, ALDH1 and PUMB1, belongs to the aldehyde dehydrogenase family. The ALDH1A1 gene encodes a liver cytosolic isoform of acetaldehyde dehydrogenase, an enzyme involved in the major pathway of alcohol metabolism after alcohol dehydrogenase. ALDH1A1 plays a critical role in protection against oxidative stress-induced cytotoxicity in lens epithelial cells(PMID:19296407). And it is important for multiple biological activities including drug resistance, cell differentiation, and oxidative stress response(PMID:19025616). As a novel cancer stem cell marker, ALDH1A1 can be used for tumors whose corresponding normal tissues express ALDH1A1 in relatively restricted or limited levels such as breast, lung, ovarian or colon cancer(PMID: 20422001). This antibody is CL594(Ex/Em 593 nm/614 nm) conjugated.

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

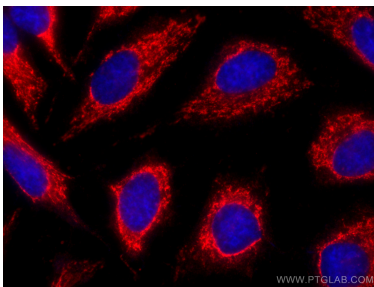
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite®594 ALDH1A1 antibody (CL594-60171, Clone: 1A10A2) at dilution of 1:100.